

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known	
		Application Number	New
		Filing Date	Herewith
		First Named Inventor	Qinghong Yang
		Art Unit	TBD
		Examiner Name	TBD
Sheet 1	of 2	Attorney Docket Number 2502365-991010	

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In accordance with the provisions of 37 C.F.R. § 1.56(a) and 37 C.F.R. § 1.97, Applicant(s) hereby make of record the references listed on the accompanying Form PTO-1449 for consideration by the Examiner in connection with the examination of the above-identified patent application.

This Information Disclosure Statement:

- (a) ☒ accompanies a new patent application submitted herewith.
- (b) ☐ is filed within three (3) months of the Filing Date or before the mailing date of a First Office Action on the merits; **OR**
- (c) ☐ is filed after the first Office Action and more than three months after the application's filing date or PCT national stage date of entry filing but, as far as is known to the undersigned prior to the mailing date of either a final rejection or a notice of allowance, and is accompanied by either the fee (\$180) set forth in 37 CFR § 1.17(p) or a certification as specified in 37 CFR § 1.97(e), as checked below **OR**
- (d) ☐ is filed after the mailing date of either a final rejection or a notice of allowance, and the issue fee has not been paid, and is accompanied by the requisite petition fee (\$130) set forth in 37 CFR § 1.17(l)(1) and a certification as specified in 37 CFR § 1.97(e), as checked below.
This document is to be considered as a petition requesting consideration of the information disclosure statement.

As required under § 1.97(e), Applicants, through the undersigned, hereby state either that [check the appropriate space]:

- (e) ☐ Each item of information contained in the Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of the Information Disclosure Statement; or
- (f) ☐ No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

It is respectfully requested that each of the references shown on the attached FORM PTO-A820 be made of record in this application. The cited references were previously disclosed in parent Application No. 09/804,661, filed March 12, 2001 and are not enclosed.

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Sheet	2	of	2	Attorney Docket Number	2502365-991010

Each item of information listed in the attached FORM PTO-A820, may be material to the examination of the above-identified application and is, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR 1.56, 1.97 and 1.98. The Examiner is requested to make these items of official record in this application.

This Information Disclosure Statement under 37 CFR 1.56, 1.97 and 1.98 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these items constitutes prior art.

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record. To the extent required, please treat this submission as a conditional petition for acceptance of the information disclosure statement.

The Commissioner is authorized to charge any deficiencies and credit any overpayment of fees to our Deposit Account No. 07-1896

Date:

Respectfully submitted,

GRAY CARY WARE & FREIDENRICH LLP

By:

Nan Wu

Reg. No. 43,360

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U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-6,013,439	01-11-00	Lishanski, et al.	
		US-5,698,400	12-16-97	Cotton, et al	
		US-5,824,471	10-20-98	Mashal et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Number Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		WO 97/23646	07/03/97	Behringwerke Aktiengesellschaft		
		WO 00/20643	10/04/99	Mosaic Technologies		
		PCT/US01/29922 (ISR)	10/29/01	FreshGene, Inc.		
		PCT/US01/51104 (ISR)	04/15/02	FreshGene, Inc.		
		PCT/US01/07858 (ISR)	04/26/01	FreshGene, Inc.		

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document. by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, US. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		D. ZERBIB, et al., "Coordinated Actions of RuvABC in Holliday Junction Processing," J. Mol. Biol., 281, pp. 621-630 (1998)	
		D. ADAMS, "Unwinding of Closed Circular DNA by the Escherichia Coli RuvA and RuvB Recombination/Repair Proteins," J. Mol. Biol., pp. 404-417 (1995)	
		C. MÉZARD, et al., "Escherichia Coli RuvBL268S: A Mutant RuvB Protein that Exhibits Wild-Type Activities in Vitro But Confers a UV-Sensitive Ruv Phenotype in Vivo," Nucleic Acids Res., Vol. 27, No. 5, pp. 1275-1282 (1999)	
		I. PANYUTIN, et al., "The Kinetics of Spontaneous DNA Branch Migration," Proc. Natl. Acad. Sci. USA, Vol. 91, pp. 2021-2025 (1994)	
		DAVIES, et al., "Formation of RuvABC-Holliday Junction Complexes in Vitro," Current Biology, Vol. 8, No. 12, pp. 725-727 (1998)	
		PANYUTIN, et al., "Formation of a Single Base Mismatch Impedes Spontaneous DNA Branch Migration," J. Mol. Biol., Vol. 230, No. 2, pp. 413-24 (1993)	
		SAIKI, et al., "Enzymatic Amplification of β -Globin Genomic Sequences and Restriction Site Analysis For Diagnosis of Sickle Cell Anemia, " Science, Vol. 230, No. 4732, pp. 1350-4 (1985)	
		WHITBY, et al., "Interactions Between RuvA and RuvC at Holliday Junctions: Inhibition of Junction Cleavage and Formation of a RuvA-RuvC-DNA Complex," J. Mol. Biol., Vol. 264, No. 5, pp. 878-90 (1996)	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): Qinghong Yang, et al.

Docket No.

2502365-991010

Serial No.
NewFiling Date
HerewithExaminer
TBDGroup Art Unit
TBDInvention: **Methods for Detection of Difference in Nucleic Acids**

I hereby certify that the following correspondence:

Information Disclosure Statement by Applicant*(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

September 26, 2003*(Date)*Ta-Tanisha L. Moore*(Typed or Printed Name of Person Mailing Correspondence)**(Signature of Person Mailing Correspondence)*EV331871487US*("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**